

## Claims

### I Claim:

- 1 This repairable plastic pallet is the first of it's kind.
2. A. This pallet is made from High Density Polyethylene (HDPE) and/or Polypropylene (PP),  
virgin or recycled material.  
  
B. Also, I am using a blowing agent and/or a gas which is all blended together during the  
injection molding process.  
  
C. The blowing agent or gas used in small percentage (%) makes repairable plastic pallet  
lighter and stronger.  
  
D. Other forms of plastic or other materials may sometime in the future be used.
3. This repairable plastic pallet consists of 2 molded parts. 1) A runner/rail (fig.4)  
  
2) board/slat (fig 5&6).  
  
1 A) A runner/rail (fig.4) is solid on both ends.  
  
B) Ribbed out along both sides to help reduce weight. See figs.1,2 & 3.  
  
C) There are molded on pegs top & bottom (fig.4) one of every 2 pegs are slightly larger (not  
shown in any figures) for correct board mounting.  
  
D) There is also a molded on plastic locking device located between each pair of pegs (not  
seen on fig.2, but visible on fig.2-A) used to secure board/slat (fig.6) in place.  
  
E) The height of the molded on locking device is approximate 1/16" , which could increase or  
decrease.
- 2 A) A board/slat see fig. 5 & 6.  
  
B) Smooth on top (fig.1) and ribbed out on bottom (fig.2).

- C) Each board (fig.5 & 6) has holes which are in line with the pegs on the runners/rails (fig.1)
  - D) Each hole slightly larger round on each side of board/slat (fig.6). One hole “in board/slat” is larger than the other hole “in board/slat” (not really noticeable in fig.6) fits over head of peg. (The difference for hole sizes is for assurance of proper board mounting).
  - E) The slightly smaller end of each hole (fig.6) is tapered for the head of the peg to rest in.
  - F) The slot for the molded on plastic locking device can be seen on top & bottom of fig.5., but only seen from the bottom of fig.6. (Hidden).
  - G) Boards/slats (fig.5 & 6) can be mounted only in one direction.
  - H) After board/slat (fig.6) is mounted, molded on locking device secures the board/slat (fig.6) into position.
- 4) Pallet assembled- Fig.1.
- A) Illustration shows pallet assembled with notched runner/rail (fig.1) used with a four-way entry for a forklift.
  - B) A straight runner can be used in the place of a notched runner/rail (fig.4). Now the assembled pallet becomes a two-way entry pallet.
- 5) This pallet can be shipped either assembled or unassembled depending on customers request.
- 6) This pallet is made of 100% plastic blended with a foaming agent and /or gas.
- A) No heat, screws and/or mechanical screws, clips, lugs , plates, flanges, hinges, bolts, nuts, nails, plastic nails, adhesives, ultra-sonic welding, or press-fitting are necessary for the assembly of this repairable plastic pallet.
  - B) No tools are required for assembling/disassembling of this repairable plastic pallet.
  - C) The only requirements needed to assemble/disassemble this repairable plastic pallet are

your hands.

- 7) This repairable plastic pallet can be repaired on the job-site, never required to be sent back to the factory for repairs.